Release notes for ENDF/B Development std-006_C_000 evaluation



November 1, 2016

• checkr Warnings:

1. The standards sublibrary uses NSUB=19, but this was never officially adopted by CSEWG for the ENDF format.

MAT = 600, MF = 1, MT = 451 (0): Stds. NSUB

ERROR(S) FOUND IN MAT= 600, MF= 1, MT=451 INVALID SUBLIBRARY NUMBER NSUB = 19

RECORD NUMBER

2. A previous error halted parsing of the current section MAT = 600, MF = 1, MT = 451 (2): Parsing stopped

ERROR(S) FOUND IN MAT= 600, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 379 TO 381

3. The standards sublibrary is not meant for transport calculations and is not required to be complete. $MAT=600,\ MF=3,\ MT=451\ (0)$: Incompleteness

11111 = 000, 111 = 0, 111 = 401 (0). Theometric lieu

ERROR(S) FOUND IN MAT= 600, MF= 3, MT=451

LRP = 0 Requires the presence of File 2, but it is missing.

4. CHECKR does not realize that the standards library is a neutron data sublibrary. $MAT=600,\ MF=4,\ MT=2\ (0)$: Ang. Dist. OK

ERROR(S) FOUND IN MAT= 600, MF= 4, MT= 2
FILE 4 ALLOWED ONLY IN A NEUTRON DATA SUBLIBRARYRECORD NUMBER 701

5. A previous error halted parsing of the current section MAT = 600, MF = 4, MT = 2 (1): Parsing stopped

ERROR(S) FOUND IN MAT= 600, MF= 4, MT= 2
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 701 TO 1734

6. The standards sublibrary is not meant for transport calculations and is not required to be complete. $MAT=600,\ MF=33,\ MT=2\ (1)$: Incompleteness

ERROR(S) FOUND IN MAT= 600, MF=33, MT= $\, 2$ SECTION MAT= 600 MF= $\, 4$ MT= $\, 2$ IS MISSING

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT = 600, MF = 1, MT = 451 (1): Variable range

ERROR(S) FOUND IN MAT= 600, MF= 1, MT=451 MOD = 1 OUT OF RANGE 0 - 0

RECORD NUMBER 379

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=600, MF=33, MT=2 (0): Directory (b)

- fizcon Errors:
 - 1. Missing files (probably spectra for outgoing particles)

 MAT 600 MF 6 (1): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT 600 MF 6
PRESENCE OF FILE 3, MT= 2 REQUIRES AN EQUIVALENT SECTION IN FILE 6

- psyche Warnings:
 - 1. The standards sublibrary is not meant for transport calculations and is not required to be complete.

 FILE 4 / SECTION 2 / CANNOT PERFORM WICK LIMIT TEST BECAUSE TOTAL AND/OR ELASTIC CROSS SECTIONS ARE MISSING. (0): Incompleteness

FILE 4
SECTION 2
CANNOT PERFORM WICK LIMIT TEST BECAUSE TOTAL AND/OR ELASTIC CROSS SECTIONS ARE MISSING.

- fudge-4.0 Warnings:
 - 1. Indicates a test was skipped due to missing information $reactionSuite: (Error \neq 0): Test \ skipped$

WARNING: Skipped test Wick's limit: "Channel 'total' could not be found!"

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (n + C_natural): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 0 (n + C-natural): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (n + C_natural): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (n + C_natural): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small